

ABSTRACT OF THE DISCLOSURE

A gas inflation/evacuation system, ^{and sealing system such as occlusive balloons} for use with occlusive devices ^{connectible} in vascular procedures.

The gas inflation/evacuation system is removably ^{connectible} to a proximal portion of a guidewire assembly and includes ^{an evacuation} a first syringe system to evacuate ^{assembly} air from the guidewire and ^{an inflation} a second syringe system for introducing a biocompatible gas under pressure into the guidewire to

5 ^{device} inflate an occlusive balloon a plurality of times. A sealing system is also removably ^{connectible} to the proximal portion of the guidewire assembly and selectively seals ^{an extended sealable segment of the guidewire assembly} the proximal portion at one of a plurality of separate locations to form an airtight seal of the guidewire. Each time a

10 ^{in order} deflation of the occlusive device is desired to reestablish blood flow to the vessel downstream of the occlusive device, the proximal portion ^{extended sealable section at the proximal portion of the guidewire assembly} of the guidewire preferably is cut distal to the location of the last seal to quickly deflate the occlusive device.